

TOIKE OIKE

The Official Newspaper of the University of Toronto Engineering Society Est. 1906

Issue 2

Vol 86

Cost: Still Free, even if Quebec splits

Toike Demands Constitutional Changes before Referendum

Ross Rock
ENG SCI 9T3+PEY=9T4
with Ana Brito
ENG SCI 9T4 for real

The Toike Oike suggests that the Engineering and U of T student body not vote YES in the October 26 referendum until the following additional changes are made to the new constitution.

1.The Rocky Mountains must be smoothed out to the east, thus creating a single 3,000 km ski run all the way to Toronto. Moguls can be added through Saskatchewan; they could use the bumps.

2.All province borders must be redrawn to be shaped like Saskatchewan. This makes drawing maps easier. It's a pain in the ass trying to colour in all those little bumps on the Alberta/BC border.

3.British Columbia be renamed Canadian Columbia.

4.Adopt a triple Q senate, with a silent M.

5.Move the national capital from Ottawa, Ontario to Ottawa, Kansas. Then move Ottawa, Kansas to the other side of the world.

6.No lecture shall be scheduled before 11:00 am, local time. No lecture shall be scheduled after 12:00 noon, local time.

7.Everybody must be forced to buy a Bnad album, in the language of their choice, official or otherwise.

The Bnad speaks a universal tongue (gibberish).

8.Every Christmas, the CN Tower must be decorated as a gigantic candy cane. The central bank towers must be wrapped up like big presents. The subway must be flooded with fruit punch.

10.A big huge box must be built enclosing the Varshitty, and then filled with concrete. If concrete unavailable, fill it with itching powder instead.

11.The value of pi must be changed to 1. This makes calculations much easier. Doing so will require some

12.Industrial Engineers must be finally told what their profession is supposed to do. The rest of us would also like to know.

13.Demand 13 must be ignored, under all circumstances.

14.The senate must not

15.Bob Rae must be made Prime Minister. That way the whole country can enjoy is wonderful, wonderful policies. And I mean that from the heart of my bottom.

16.Threaten the U.S. that if they don't give us the World Series title, we'll invade with everything we've got, including both tanks and the ship.

17.Ontario must be made a nuclear free zone (nuclear engineers get everything free in Ontario)

18.Make the RCMP wear their red uniforms at all times. At the same time, bring back the old \$50 bill; the one with the red and green on the back. It was really nifty. I liked showing Americans that one.

19.Make the dime bigger than a nickel, but smaller than a quarter. It's smallish size screws up the natural progression of coin sizes.

20.Officially recognize the Toike as the voice of a new generation.

21.Make the mighty bell-curve the holy bell curve. While you are at it, bell curve income tax.

22.Make keeping a federal offence punishable by bannishment to Ellesmere island.

23.Make all days in which an NHL game is played a national holiday.



Yes / Oui /
Ano / Da /
Yep /
Yabetcha



No / Non / Ne /
Nyet / Nope /
Fatchance

9.An underground walkway must be built from the Engineering buildings to the residence of each and every person in SkuleTM, including professors. Profs are a lot easier on us when they are dry and happy.

sort of intense gravitational field to bend space into a shape such that pi equals one. The Eng Sci's should be placed in charge of this, 'cause what else is an Eng Sci good for?

have its current function changed: political nursing home. Otherwise one hundred senile politicians will wander the streets bumping into things, or even more frightening, look for a real job.

Serious Notice of Big Meeting

The Annual General Meeting (AGM)
of the University of Toronto Engineering Society
Will take place on
Thursday, October, 22
at 6:00pm in SF 1105

All full-time undergrad students registered in the Faculty of Applied Science and Engineering are welcome to attend.

JULIE
TRIED TO
STEAL THIS
TOIKE
(for old times
sake...)

BUT
BRIAN
STOPPED
HER...



EDITORIAL

ENG SOC'S OFFICIAL NEWSPAPER

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Our apologies to those who we've missed.

(like Ana)

Circulation

The TOIKE OIKE is a monthly publication (during the school year.) Each issue has a circulation of 16,000 copies throughout the University of Toronto community. Subscription information is available at the U of T Engineering Society, (416)978-2917.

Disclaimer

The Toike is a humour newspaper designed to entertain and inform its readers. The opinions expressed within this newspaper are those of the authors and do not represent the views of the U of T Engineering Society, unless so indicated. Address all comments and letters to:

The Toike Oike
c/o the Editor-In-Chief
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There seems to be a growing trend in the media lately to stereotype engineering in Canada.. According to the Globe and Mail (Oct. 5, 1992), "Canadian engineering schools are infamous as hotbeds of redneck anti-feminism." While that is the sort of statement I expect from reporters at the Globe who don't seem to spend very much time researching their stories, I've begun to wonder about the implications of it. In the two years that I have been a student of engineering at U of T, I can honestly admit that I have not personally witnessed any acts or statements that could be considered sexist in either an overt or hidden sense. While I fully recognize that there is sexism in the faculty, I find myself wondering what sort of people are responsible for it. The Engineering Society, the representative body of all undergraduate engineers at U of T, has about a fifty percent female/male ratio, despite the significantly lower ratio in the faculty as a whole. Haven't read that in any newspapers, have you? I suspect that the amount of sexism in engineering these days is no higher than in any other faculty. While I admit that that is no excuse, it does suggest that maybe the solution isn't to just blame the engineers, maybe we should work together to do something about it. But printing articles that inflame a lot of people without really

accomplishing anything doesn't seem to be much of a solution to me.

Handwritten signature: Audekay

Opinion

by Ross Rock, ENG SCI 9T3 + PEY

In the years I have been in engineering school, I have worked harder than I ever thought I could. I work until the wee hours of every night, and my free time is measured in hours per month. Yet I continue to stay in engineering. Why? Because the work, although extreme, is conquerable, and I simply enjoy learning. I'm in university to learn, not to find the path of least resistance to a high-paying, low-effort job. I'm also in university to become an engineer.

Our lives and society are marbled with technology. The necessities and luxuries we enjoy every day are brought to us by billions (perhaps trillions) of dollars of hardware. Even beyond being able to watch the Simpsons every Thursday night, our very lives rely upon man-made gadgets and

do-dads. Although thousands of different professions and disciplines are dedicated to making our technical society function, it is largely up to the engineering professions to ensure that technology is safe and will work as intended.

As engineers, we assume a huge amount of responsibility along with our choice of profession. The cold Iron Ring is intended to constantly remind us of this. As a result, we have to acquire a lot of skill and knowledge, and that can only come about through hard work. Very hard work.

The School of Practical Science (if I may use Engineering's traditional name) has a very difficult task. In four years, they have to turn high school students who don't know an integral from a hole in the ground into graduate students ready to either perform some serious research or perhaps

hang out their shingle. Of course, a lot of practical knowledge is learned after academia. However, school is where the fundamentals are taught and perfected, and there are certainly a lot of fundamentals to learn.

So, as I slog through problem set after problem set, my intravenous coffee drip in place, both a quantum Mechanics set and the Toike screaming for my immediate attention... I live with it. If I really want to be an engineer, I have to learn the material somehow.

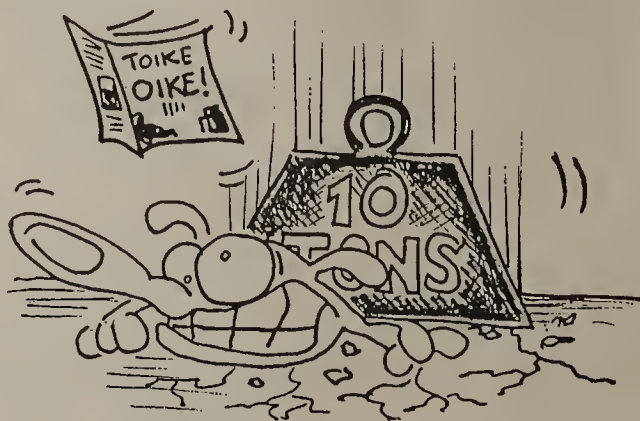
To be honest, I hate the hard work. I would much rather climb trees or run through fields or go somewhere where free time springs eternal. However, if I want to be an engineer (and I do), I can't do those things right now. This university is filled with thousands of people, both within engineering and outside, who have sacrificed countless

weekends in the pursuit of whatever goal they are chasing. My goal is to graduate with at least a few ideas to rub together, and, if I'm lucky, an enjoyable job. I also hope to love the subject of engineering as much as I do now. It sometimes seems like loving engineering is like loving Attila the Hun, but I continue to stick by my work.

If you want to be an engineer, make sure you have a lot a paper and fresh batteries for you calculator. If you feel that you cannot live with the work, you'll be wasting your precious free time in engineering. But please, give it a shot. You, like me, may surprise yourself.

Handwritten signature: Ross Rock

... WHY SUE A DEAD DOG?





More Ivana...

by Ivana Strgacic, VP Activities

Hello Cleveland! Aviv has asked me to fill space with my report, so here it is. As you know Orientation has come and gone, like you missed it. Many of the events were quite successful, except maybe for the rain. So we've decided to label the class of 9T6 as "Wet Frosh".

But on a serious side, being V.P. Activities, it is my duty to inform you of any fun that we are planning on

having. Some upcoming events that have been scheduled are Oktoberfest in Waterloo with the Waterloo Engineers, October 16th; also Homecoming and U of T Day on October 17th. Come out and support the faculty by helping with the displays or show your spirit by helping with the Engineering float (see Brian, the Blue and Gold Chair) or just watching and cheering for it.

A few new clubs have popped up in the Eng Soc, including an Engineering

Debate Society, be on the lookout for any information soon. Also there's a plan in the works of forming a special committee, The Game Master's Guild, if you are interested come and see me.

Some future events that you should be out on the lookout for are Godiva Week and Cannonball, in January, the different clubs' Dinner Dances, Christmas, Channukah, and exams. Good Luck, and I hope to see you next semester.

COCA Conference

Ivana Strgacic, VP Activities

While you all were working at your jobs this summer I was working on my social skills. My promotion of social events to be exact. Where, pray tell, would a person learn such useful skills? Why, at the Canadian Organization of Campus Activities, otherwise known as COCA.

This charming conference took Ed, SUDs manager extraordinaire, and I (SUDs wench extraordinaire -ed.) to Hamilton for five days of having products and acts shoved down our throats. Mind you, the Beverage products were willingly swallowed.

This year marked the 10th anniversary of the creation of COCA. It was originally founded to promote ongoing communication among post secondary entertainment programmers. It has far surpassed this goal.

The five days in the old steel town were not wasted ones of incessant drinking and partying. No, those were the nights. The days actually contained some useful seminars, such as Group dynamics, lecture programming, dealing with bands and contracts, special event fundraising and even leadership theories and stress reduction. These lectures, seminars and round table discussions were mixed with showcases of different acts and Canadian bands. Acts included the Jim Rose Circus Side Show, Marty Putz, Moxy Fruvous, Me Mom and Morgentaler, and many, many more.

I could continue and discuss our evenings after the hospitality suites, but that could possibly implicate me with yet another nick name. I have to say that it was worth while going, just to find out what actually goes on behind the scenes and making, hopefully, some valuable contacts for future events.

The 5th Canadian Conference on Women in Engineering, Science and Technology

by Ivana Strgacic, VP Activities

This summer while everyone was concentrating on their tans I got to discuss topics on the roles and involvement of women in engineering. The University of Guelph hosted professors, assistants, general people working in and around engineering, and engineering students from the Universities of Toronto, Waterloo, McMaster, Ryerson and Guelph. I was one of the few students who attended, however there was a fair contention of men present. Some of the presentations included topics such as encouraging women to engineering and defining a girl's education.

One problem with schools is that they favour males when in a coeducational environment. It is because they are brought up to be more aggressive and are encouraged to this

competitive lifestyle. While the female student is not focused on or called on as often because of the traditional role of women to be soft spoken and hidden. It was pointed out that even female instructors tend to call on the male students more often. A solution to this problem is to bring about awareness to the problem so that it can be eliminated.

Another issue is the climate towards women in the engineering school, for students and professors alike. McMaster conducted a survey of undergraduate and graduate students and staff. Questions include factors in choosing engineering, if there are any offensive material, even if the environment is safe (due to evening classes and tests).

The afternoon ended with workshop topics. Everyone was split into groups to discuss the following topics: Orientation; Course Module re equity issues in Year 1

course context/complementary studies; Increasing women faculty members; Faculty sensitive to gender issues; Image; Policies/practice to enhance entrance to graduate studies; Safety/environment; What should engineering education be like in five years?; Backlash issues and their management; Educate faculty about the issues; What can we do at your school; Increasing female engineering undergrads; Transition from school to professional employment. Each group made recommendations towards these topics.

The group recommendations from the workshops and the Resource List and a summary on the Report of the Canadian Committee on Women in Engineering (April 1992) can be found in the Engineering Society through Rich (the VP External).

by Rich "Long Fucking Headline" Petrusev, VP External

This conference was held at Glendon College, York University on August 14-15, 1992. Approximately 200 women attended this conference with a whopping 3 or maybe 4 men in attendance as well.

The conference started out great with a very motivating speech from Dr. Ouida Wright. However the rest of the conference did not follow this positive path.

During other speeches and panel discussions, there were a lot of issues presented and there was a great deal of complaining but these speakers didn't realize that

we, the audience, were already aware of these problems. We were there to solve them. Needless to say, this never really happened.

There were no firm solutions put forth. Not only that, but, there were almost no men there. Part of our problem is that the rest of society doesn't know about these problems. We don't need a conference to tell other women what they already know: that there is a shortage of us in engineering. We need to tell other PEOPLE. Perhaps next time we will invite them. Until then, a very nice report will be made about the conference and then filed away forever.

Top Ten Excuses For Not Handing in An Assignment:

by S. Charlene Ramkissoon, VIC 9T4

- 10) Dan Quayle did it for me - do you really need another blank sheet of paper.
- 9) The toilet paper at our house ran out last night.
- 8) I performed an important scientific experiment this morning and discovered....paper is COMBUSTIBLE!
- 7) I decided to be environmentally friendly by not using paper of any kind.
- 6) Vive le Quebec libre!
- 5) The person from whom I usually copy died yesterday.
- 4) I used invisible ink to do it
- 3) There were no seats on the bus today
- 2) Last night and this morning there were total eclipses of the sun, the moon and my brain
- 1) I didn't do it, ok!

Consolation excuses:

I wrote it in Sanskrit

Recession hit me and I don't have a pen

My baby brother is teething and we can't afford a teething ring

Faculty of Arts and Science Announces New Mathematical System

by Gerard Torenvliet,
IND 9T6

Although it had been rumoured for quite a while, no one ever thought that the Faculty of Arts and Science would carry through with their ambitious plan to revolutionize and dominate the world of mathematics. However, in an article in The Varsity (August 4, 1992,) the new system could be seen making its way into the public domain.

This new format for tackling mathematical problems has been named the Systeme Artsie (SA) and represents a new era on the mathematical front. Although the article did not specifically

announce that it was implementing the SA for its calculations, it was blatantly evident. "Minimum wage up 35%," the headline boasts. Under the SA rules this represents a rise from \$6.00 to \$6.35.

It is expected that the SA will soon expand its horizon into integral calculus, which they plan to evaluate with the aid of cute little cardboard cutouts.

(Right) Reprint from The Varsity.

Terrible Times Take Toll On Telethons

Skule's annual telethon was held during the week of September 21, 1992. Each night from Monday to Thursday, two clubs got together at 21 King's College to enjoy pizza and pop. Following this, they spent two hours on the telephones, calling alumni to raise money for the Faculty and your education.

In spite of the energy and enthusiasm shown by all our callers, the results are down from last year. It seems the recession has had an influence on everyone's charitable instincts - even engineers.

Though we did not match the totals from last year, we had four very worthwhile evenings. Here are the results:

| Club | Number of Callers | Dollars Pledged |
|---------------------|-------------------|-----------------|
| Civil | 12 | \$4,910 |
| Geo | 9 | 1,945 |
| Mechanical | 23 | 10,382 |
| Industrial | 17 | 3,100 |
| Engineering Science | 15 | 5,705 |
| Chemical | 25 | 4,807 |
| Electrical | 19 | 6,535 |
| MMS | 7 | 2,100 |
| TOTAL | 127 | 39,484 |

The top callers were:

| | | |
|------------------|---------------------|-------|
| Michelle Radford | Mechanical | 1,847 |
| Gina Mollicone | Chemical | 1,690 |
| Anthony Milani | Civil | 1,020 |
| Mark Dejmek | Engineering Science | 1,000 |
| Dorothy Pavlidis | Electrical | 965 |
| Chris Keith | Geo | 880 |
| Shari Langdon | MMS | 655 |
| Selina Madsen | Industrial | 620 |

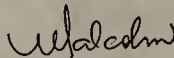
As you can see Mechanical Engineering under their just elected Chair, John Carrington was the super-star. They raised \$10,382 and so win the \$275 prize donated by the Engineering Alumni Association. One of the Mechanical Club callers, Michelle Radford, raised the most money by an individual. She will get the \$125 prize for this feat, also donated by the E.A.A. Congratulations to the winners.

All the clubs worked very hard for the Faculty in this very worthwhile endeavour, and all the student body owe the callers a debt of thanks. You might even want to buy them a beer at the next Suds.

If you didn't get involved this year, you missed a "fun" evening, the chance to win money for yourself and your club, three hours practical experience and speaking to some very interesting graduates.

Watch for the announcement next year and sign up early. You won't be disappointed.

Hearty thanks again, to all who participated.



Malcolm McGrath, PEng.
Assistant Dean
Alumni Liaison

they are allowed to graduate. The as yet unpublished report deems student writing level as "a sizeable problem." If implemented, the test could hurt visa students who speak english as a second language.

STAFF

Minimum wage up 35%

Some good news for students working minimum wage jobs: minimum wage just went up. The hourly wage will go up 35 cents per hour to \$6.35 on Nov. 1. The liquor server wage will stay fixed at \$5.50.

STAFF

Helping women through the courts

The U of T

4/10/92

With all the sexually transmitted diseases going around its important to find out all the essential facts about your partner. This month we feature a short quiz that will help you determine if your boyfriend/girlfriend is a keener.

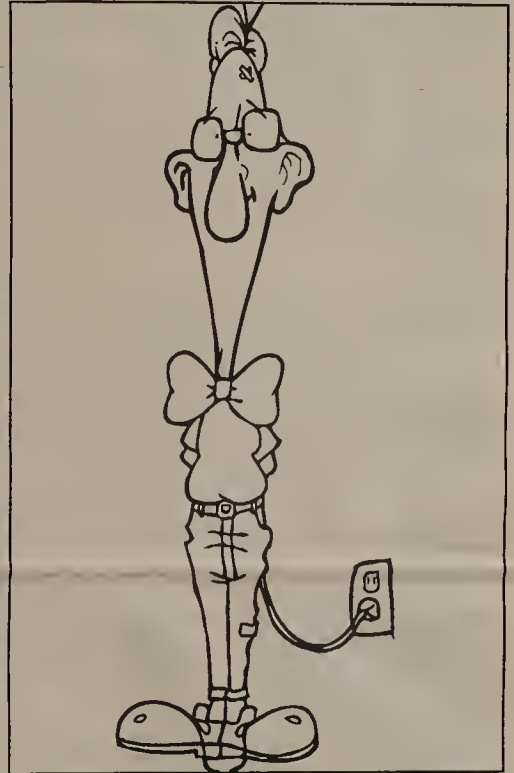
THE CHECK IF YOUR GIRLFRIEND/BOYFRIEND IS KEEN QUIZ

1. Does your girlfriend/boyfriend take notes
 - a) In all of his/her classes.
 - b) In all of your classes.
 - c) In all of your best friend's classes.
 - d) During sex.
2. During lunch does your partner eat lunch with
 - a) You.
 - b) Your best friend.
 - c) His/her calculator.
 - d) His/her calculus professor.
3. Does your girlfriend/boyfriend enjoy
 - a) Problem sets.
 - b) Mid-terms.
 - c) Exams.
 - d) All three of the above at once.
4. Is your girlfriend/boyfriend's idea of a good time
 - a) Doing a problem set.
 - b) Attending special seminars on HP-48SX key-stroking technique.
 - c) Calculating Pi to 900 decimal places.
 - d) Whatever the professor thinks is a good time.
5. Does your partner think that HMV stands for
 - a) Healthy mixed vegetables.
- b) High molecular valence.
- c) Happy momentum vector.
- d) truth, justice, and the American way.
6. Does your partner carry around
 - a) A pocket protector.
 - b) A briefcase.
 - c) A laptop.
 - d) The complete works of D.G. Ivey on CD ROM.
7. On dates, does your girlfriend/ boyfriend bring with his/her
 - a) HP-48SX.
 - b) Textbooks.
 - c) Problem set solutions, for safe keeping.
 - d) Professors.
8. Is your girlfriend/boyfriend's idea of sex
 - a) The next integer after five.
 - b) Downloading programs from one HP to another.
 - c) Holding hands.
 - d) (c) while doing (b).
9. In movie theatres, does your girlfriend/ boyfriend
 - a) Sit in the front row.
 - b) Take notes.
 - c) Ask questions.
 - d) Talk to the projectionist for half an hour after the movie.
10. Is your partner's idea of romance
 - a) Doing each other's problem sets.
 - b) Whispering sweet math formulae into your ear.
 - c) Taking a moonlit stroll through the library.
 - d) A quite evening at home with just you and his/her calculator.

Scoring:
 1) Total the number of answers of each type (ie. abcd).
 2) Compute the base score using the following formula:

$$\text{BASE SCORE} = 3A/(4B+C) + 6/D - e$$
 where ABCD are the totals from (1) respectively, and e is the inverse natural logarithm.
 3) Normalize the BASE SCORE, taking care to account for possible variations near the limits of normalization.
 4) Apply an inverse Fourier transform to the normalized base score to produce the FINAL SCORE.

If your girlfriend/boyfriend has managed to work out their FINAL SCORE, then they are definitely keen!



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Technical Prep

by Ross Rock
ENG SCI 9T3+PEY=9T4

On the second day of orientation, over 270 happy, bright-eyed Firosh practically danced into MC102, eager to write the first test of their post-secondary careers. As usual, some tried, some cried, but all died. Some say it's not fair that we give upper-year Eng Sci-type questions to high school grads, but hey, who said life is fair?

Below is a copy of the test. Over the remainder of the page are some of the more creative answers, evasions and general pleading. The Firosh were told that the TPT is used to evaluate the quality of education at their high schools of origin. It seems that some high schools teach a sense of technical humour more than others.

Oh, if you're the kween type who want's to know the correct answers, don't ask me. I didn't create this questions with any intention of having to actually solve them.

University of Toronto Faculty of Applied Science and Engineering Technical Proficiency Test (TPT) September 9, 1992

Time: 1.0 hours
Examination Type: A (No written aids)
Calculator Type: III (All programmable and non-programmable)

The examination is divided into two sections: applied mathematics and applied science. Attempt all questions. In all questions, state any and all assumptions. All questions are of equal value.

A. Applied Mathematics

1. Solve.

a) $\int x e^x dx$ b) $\int \frac{dx}{\sqrt{a^2 - x^2}}$ c) $\int_0^{\pi/2} \cos^2 \theta \sin^2 \theta d\theta$

2. A simplified reel-to-reel tape is shown in Figure 1. The initial radius of the left reel is R_0 and zero for the right. A tape of thickness a is fed past the recording head at a constant velocity, v . Derive and sketch the ratio of the left reel's angular frequency to that of the right, as a function of time. Angular frequency can be expressed as tangential velocity divided by radius. Neglect the effect of the reels' spindles. How does the shape of the sketched curve change with various values of a ?

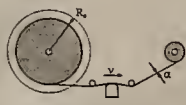


Figure 1: Simplified reel-to-reel tape after a few seconds of operation — the recording head is at bottom centre.

B. Applied Science

1. Consider three galaxies moving as shown in Figure 2. Astronomers on B measure A's velocity as $0.7c$ and C's velocity as $0.8c$ (c is the speed of light).

a) What would astronomer on A measure as C's velocity? (Hint: at speeds this close to the speed of light, Galilean transformations are invalid; velocities over $1.0c$ are physically impossible)

b) If astronomer on A sent a light signal of frequency f (as measured in their laboratory) towards B and C, what would the red-shifted frequencies of the signal as it arrives at B then C?

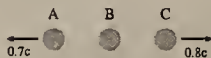


Figure 2: Three galaxies (velocities are as measured by observers on B).

2. A young engineering student is exploring a strange planet, shown in Figure 3. The density of the left hemisphere is 2 gm/cm^3 and the right is 3 gm/cm^3 . The student is standing upon the division between the two hemispheres.

- a) Given the radius of the planet is 1000 km , what is the distance between the geometrical centre of the planet and its centre of mass?
b) If the student throws a mass of 1 kg straight up with an initial velocity of 10 m/s , how far from the student will the mass land?
c) Could such a planet exist in a stable orbit about a star?

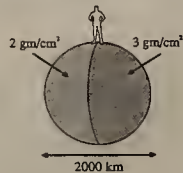


Figure 3: A planet of two different densities

3. The velocity of water exiting a hole in a container can be expressed as being proportional to the square root of the water pressure at the hole (see Figure 4). The pressure difference between the top of the water and the hole is shown as Δp , while ρ designates water density and g the force of gravity. Given the above information, consider a bowl with the following characteristics:

- a) It is symmetric about its vertical (z) axis.
b) It has a hole in the bottom.
c) It drains such that the water level inside falls at a constant rate, regardless of the depth of the water.

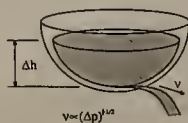
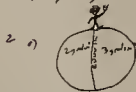


Figure 4: A bowl with a hole in the bottom (water escapes at a velocity proportional to the root of the water pressure)

Such a bowl was used by the Ancient Egyptians as a water clock. Find the radius of the bowl as a function of its height. What other uses exist for a bowl with these properties?

Candidate's Name: Alex Mharidi
Date: September 9, 1992
Location: MC 102
Course: Mechanical
Professor: Crescent School

- 1) As it arrives at B the frequency of light would be a purple colour with a frequency of approximately 500 Hz and as it arrives at planet C would be more white in tint because it would lose some of its lustre in colour and in its shine. Its approximate frequency would be 750 Hz.

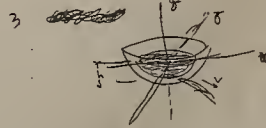


2) $v = \frac{r}{t}$ and $\frac{dr}{dt} = \frac{v}{t}$
Assuming FORCE OF $G = 9.8 \text{ m/s}^2$
 $0 = 10^4 + 2(9.8)t$
 $dt = 5.1$

the object would land 5.1 m away from the person.

c) This kind of planet would never exist except in some George Lucas movie. The reason behind this kind and accurate statement is that the people who live on the side of the planet.

As the planet is so small and the people live on the side of the planet, they would be crushed. However, the people from the greater densified atmosphere they would be able to cross the line and then would be able to fly. This would make the other people jealous and result in a war between the two sides. Therefore the inhabitants of this planet would destroy each other. Pretty good plot for a film!!!



Other uses for such a bowl would be to store some very valuable liquid around the kitchen especially if you're an Ancient Egyptian.

Candidate's Name: Alan Feldman
Date: Sept. 9/92
Location: MC 102
Course: ENG SCI
Professor: Earl Haig S.S.

Let $v = k \sqrt{\Delta p} = k \sqrt{\rho g h}$

USE MATRAX FORM

$v = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$

BY ITT, TST, MAS, GCHG, SAG, CERR

WE HAVE

4 ± 5 WHICH IS $4(3-2) = (4-3)(1) = 1$

BUT ASSUMING 1=12 (GOOD ASSUMPTION) & 3=7 (BAD ASSUMPTION)

WE CAN PROVE THAT THE

KOLBENKOVAN - BZDR ENSSOSKYCH - LUMBAR - JONES

THAT LS=RS

WE HAVE PROVED THE QUESTION

Candidate's Name: Michael
Date: Sept 9
Location: MC 102
Course: Computer Eng
Professor: Dunbarton High

Dunbarton High School has faculty and hand writing skills not feel that any students at school should be punished because that I was out drinking.

Why not just add Firosh to give the test so that people with a clear mind.

Candidate's Name: Quasav
Date: Sept 9 1992
Location: MC102
Course: Mechanical
Professor: Leaside High

3- turn it upside-down and a straw in and turn it for arts.

A goalie mask for a cyclist.

Candidate's Name: ARUN PAUL
Date: Sept 9, 1992
Location: MC 102
Course: Engineering Sci.
Professor: White Oaks Sec

considering that present supplies could be used to construct other

Candidate's Name: Bryan
Date: Sept 9th
Location: MC 102
Course: Engineering
Professor: Pickering

PART A:

#1 (one!):

a) $y = x^2$

b) $f(x) = x^2$

Screen

ART

1. a) AS + S

AR + Sies, R

I doubt

know

Efficiency Test

Bimm
Engineering
School

an excellent
and I do
from that
of the first
night.
week is finished
can write it

Khan

School

an act-bill, stick
In trust observatory

AB LAKHANA

random school

Archbell

2
J ty
ing
high school

PARTY
x dx
FLOWER!!

at x
this

anomers are
right? so
they'd
that exist.

b) this is a stupid
question.
One of the
orientation leaders
(Ross, i think)



2 (too): i don't get this.
why is the planet lopsi
that's kind of
Silly, don't you
think?

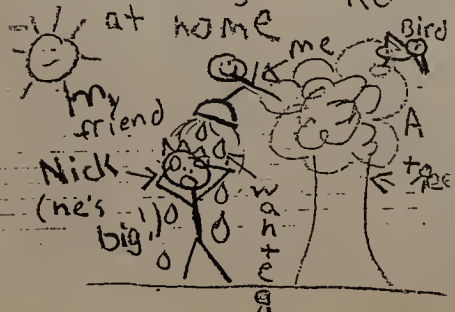
i think you gals & guys
watch 2 much Startrek.
enterprise

3. Egyptians were cool.
they Made really
Neat Pyramids and
stuff



desert →
The desert was
a real Bitch, cause you
could die in it. And all
sorts of big and little
animals would eat you,
and that would hurt, only
you'd be too dead 2
feel it.

Oh yeah. I + I had a bow
like that, ~~it~~ would use
it 2 pour water on
my friend Rick, cause
i left my supersoaker
at home



Candidate's Name: K. Lev
Date: Sept 9, 1992
Location: MC102
Course: Chem Eng
Professor: Peter Piccolo School of
Hair Design (91/92)
(a hair engineering
educational institution)

Sung to the tune of the Engineering Hymn (Godiva)
POOR HAROLD

When I arrived on Wednesday morn in MC102
I knew that "questions" given would be impossible to do
so now I sit and write this song to pass the time away.
About a guy named Harold who sits in front of me today.

He came to class prepared today, he really did look fine
His calculator, pen and pencil HB number nine.
He chewed his nails, at his desk at all was such a joke.
A nervous F1 ROST, one here was a quickly domed Flake.

He was, he was, he was, he was, he was an engineer
To conquer all the records was his reason for being here.
And now he sits, his hair torn out, his blood lies on the gear.
And this is what I heard him say (it was his final word)

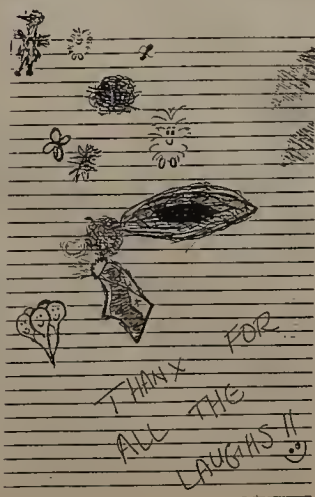
"I am, I am, I am, I am, I am an engineer
I know I am (if I try hard) demolish 40 beans.
It may take me a year or two (and wait 'til dim mination)
'Cause I cannot drink if I am not, I'm such a real kickin'

Toke Oike, Toke Oike
what the fuck is this?
I demand to see a prof about
Question -

[Sadly, the rest was lost, as poor Harold suddenly
drowned in the mélange of hair, shirt and
nails around his desk. R.I.P., Harold]

Thanks for the fun, people!
Love,
Karen

Candidate's Name: Berria Lokollo
Date: Sept 9/92
Location: MC 102
Course: CIVIL
Professor: A Elizabeth



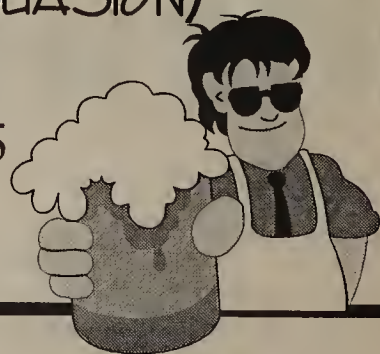
Every Friday afternoon from 3:00 til 7:00

In the Sandford Fleming Basement Cafeteria

(THE SUBTLE ART OF PERSUASION)



TOIKE OIKE MAKE-UP
THURSDAY, OCTOBER 15
5:00 PM
ENG SOC



CHEMS AT THE BEACH '92

by Roxanne Diakowsky,
CHEM (9T3) Club Sports
Director

The Chem Eng Club sponsored a beach (well, okay grass) volleyball tournament on Thursday, September 17th on Front Campus. Twelve teams, representing second to fourth year, as well as graduate students and professors in the Chemical Engineering department participated. Also present (in body anyway), was a team of fingers made up of students from various other disciplines.

The tournament started at 5:30pm and continued until after dark (yes, lack of light does make it difficult to see a volleyball, even when you use a cool florescent orange one.) Each team played a

minimum of three games, with just about everyone keeping in mind that participation, and not quality volleyball was the key.

During the tournament, Chem Club culinary artists prepared delicious (or sometimes they were raw) hotdogs and pop for the hungry crowd.

When all was said and spiked, the winners and proud owners of official, original and limited edition "CHEMS at the BEACH '92" t-shirts, belonged to the CHEM 9T3B team. This team certainly displayed the enthusiasm and fine sportsmanship (except when they were complaining to the official) that was exhibited by all the teams participating and allowed the tournament to be a great success.



Don't Drink and Conquer Europe.

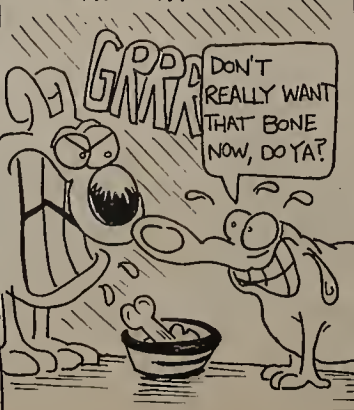
BIG FAT DOG

GETS A LIFE . . . NOT!

DUE TO A SAVAGE TWIST OF FATE, DOG FINALLY MEETS HIS NEMESIS...



IN THE SLAMMER, DOG IS FORCED TO CHANGE HIS ASININE ATTITUDE IN ORDER TO SURVIVE...



WILL BIG FAT DOG STARVE AND BECOME SKINNY PUPPY? WILL HE ESCAPE? WHO REALLY CARES? FIND OUT SOON IN A VARSHITTY NEAR YOU!!



THE TOIKE OIKE GUIDE TO ...

by Joe E. Skule

The Toike Oike Guide to Beginner's Chess

Step 1. Move any of your chess pieces to any square on the board.

Step 2. If opponent says, "Hey, you can't move like that!" replace chess piece and repeat step 1.

Step 3. Let opponent move, then repeat step 1.

The Toike Oike Guide to Beginner's Drinking

Step 1. Drink beer.
Step 2. If conscious, repeat step 1.

The Toike Oike Guide to Eating At Marrirott

Step 1. Eat any Marrirott food item.
Step 2. Spew.

The Toike Oike Guide to Eating At Marrirott (Simplified)

Step 1. Eat spew.

The Toike Oike Guide to Flying

Step 1. Flap arms with vigour.
Step 2. If still earthbound, lose weight and repeat step 1.

The Toike Oike Guide to Wasting Time

Step 1. Enroll in arts programme.
Step 2. Watch Beverly Hills 90210.
Step 3. Become a rapper.

The Toike Oike Guide to Saving the Environment.

Step 1. Hug tree.
Step 2. Refrain from farting.
Step 3. Kill thy carbon dioxide producing self.

The Toike Oike Guide to Investment

Step 1. Buy a BNAD album.
Step 2. Sit back and watch the money roll in!

The Toike Oike Guide to Picking Up Members of the Opposite Sex

Step 1. Gently wrap arms around member of opposite sex.
Step 2. Lift his/her feet off floor.

The Toike Oike Guide to Magic

Step 1. Enter your favourite drinking establishment with a wallet full of money.
Step 2. Stagger out of the establishment hours later. Is there any money left in our wallet? No? Tah-dah!

The Toike Oike Guide to Watching TV

Step 1. Watch television.
Step 2. If screen is blank, turn on television.
Step 3. Watch television.

The Toike Oike Guide to Doing Laundry.

Step 1. Place dirty clothes in magic bin.
Step 2. Open drawers, clothes are clean and neatly folded. Tah-dah!
Step 3. Say 'Thanks Parent/Guardian.'

The Toike Oike Guide to Doing Problem Sets.

Step 1. Obtain keener problem set.
Step 2. Place in photocopier.
Step 3. Make copies.

The Toike Oike Guide to Scamming Food

Step 1. Wait for someone to buy food.
Step 2. Say 'Hey, (person's name), there's a telephone call for you.'
Step 3. Chow down.

The Toike Oike Guide to Writing Toike Articles

Step 1. Get Drunk
Step 2. Write something stupid.
Step 3. Fall down.

The Toike Oike Guide to Bear Hunting

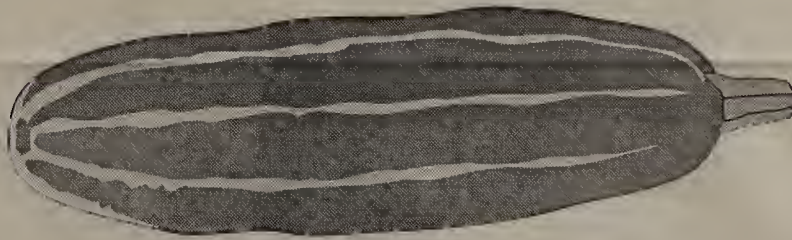
Step 1. Point gun at charging bear.
Step 2. Pull trigger.
Step 3. Get mauled by bear.
Step 4. Release safety on gun.

The Toike Oike Guide to Skydiving

Step 1. Jump out door of plane.
Step 2. Pull rip-cord.
Step 3. Red-faced, re board plane.
Step 4. Wait for take-off.
Step 5. Repeat steps 1 and 2.

The Toike Oike Guide to Reading the Varçity

Step 1. Look both ways to make sure no one sees you picking it up.
Step 2. Pick up paper.
Step 3. Burn.



Arts and Science: An Arts Perspective

by S. Charlene Ramkissoon, VIC 9TA

The following is a list of courses and course descriptions, arbitrarily chosen, from the 1992 - 1993 Artistic Calendar:

Cookie tasting 100F: (CTT 100F)

Students explore theoretical side of the cookie world - examining them by both brand and flavour. N. B. Participants in this course are required to do a 10 word essay on the advantage of Mr. Christie cookies over Colonial cookies.

Cookie tasting 100S: (CTT 100S)

This lab course is designed to be a practical complement to CT 100F. Experiments include counting the chocolate chips in a Chips Ahoy cookie, and pounding your heads against concrete

abutments. (Exclusions: GLG 100Y)

Underwater Basket Weaving 321Y: (UBW 321Y)

Students learn the ancient art of underwater basket weaving. Final exam will entail a three hour underwater assignment (Type 1-No breathing aids allowed.)

Climbing Trees 101H: (CLT 101H)

Inmates learn to become primates.

Climbing Fences and Cages 201H: (CLF 201H)

Primates master the art of escaping captivity.

English 444Y: (ENG 444Y)

Intellectuals learn to compose simple sentences - alphabet soup will be utilized to help facilitate the learning process.

Bungee jumping 150F: (BUJ 150F)

Students are introduced to the basic principles of bungee jumping - regular cord recommended.

Bungee jumping 150S: (BUJ 151S)

Participants investigate bungee jumping further, this time using a non-elastic cord. Prerequisites: BUJ 150F

Bungee jumping 250Final: (BUJ 250F)

Advanced bungee jumping - for those who are really serious about committing suicide - no bungee cord required. A seminar on the proper preparation of last will and testament is given prior to the jumping day - we will buy back bungee cords at half price.

Prerequisites: BUJ 150S

Geology 110Y: (GEO 110Y)

Students go for walks and collect any type of rock, sand,

stone, gravel, concrete, pebbles, boulders, grit and of course alluvium. The mass, volume, density, purity, clarity, cut, carat and of the specimens will be determined. Note that all specimens must be cleaned and polished.

Walkman listening 101S: (WLK 101S)

Designed for novices with a walkman.

Potato Chipping 553F: (POC 553F)

The great Crisper/cracker/chip controversy continues.

Converter Skills 105H: (CON 105H)

Designed for couch potato wannahees.

Colouring 309H: (COL 309H)

Apprentices master the art of crayon colouring - inside the lines!

Colouring 409H: (COL 409H)

Students learn to join dot to dot puzzles and then colour the resulting picture.

Prerequisite: COL 309H

Philosophy 255S: (PHL 255S)

Neophytes attempt to answer the question "Who am I" (Name, address, phone number, and date of birth will be covered.)

TTC Riding 107F: (TTC 107F)

Students stand up for the duration of the class and do nothing.

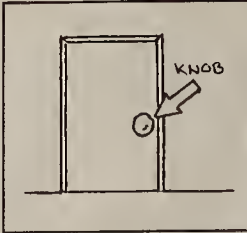
No Classes 201H: (ART 201H)

Note: A fourth year MMS Engineering student will be conducting this class.

Editor's Note: Charlene is an Arts student at Victoria College. Welcome to the staff!

A WAYWARD EDGE OF JUSTIN'S UNIVERSE

This is the first of what will hopefully (at least Aviv hopes) be a monthly column from yours truly, Justin Bowler, NY 9T1+P+1. As you may or may not know, (and may or may not care) I was an editor myself one day. Why I remember when ... Enough of that. Down that path lies only evil. (and other engineering traditions of old.)



Now for some thoughtless speculation on things that amaze, amuse, and confuse ...

- Why does everyone keep asking Dave Vendramini what is going on. Not only is Dave not in charge, he does not care. Personally Dave is the last person I would ask for directions, and if someone did tell me to ask him, I would say "What? Is HE in charge?!"
- Is Selda the oldest ten year old on the planet? And if not, who is and where are they? I want to be sure to stay well away.
- Why do the rock-brains in GEO keep saying they are the mightiest division in Engineering when it is a well known fact that MECH holds absolute claim to that title. (If everyone in Eng. Sci. was in the CAM option then they would be the best but all those Aeros and Chems are holding us back.)
- Why do all the Frosh keep coming up to me and saying "WOW! You have your own song! What do I have to do to get my own song?" Are they really that stupid? Why do they want to

have thousands of people sing a reasonably derogatory song about them. This is the kind of thing most people would be happier if they could avoid.

And, now, for the ultimate "What the Fuck?" Brian the Boob and his pal Bobby Rae, denture wearer, are busily trying to convince us to vote "Yes" to a document which they won't let us see. We can all rest assured however, because uncle Brian has promised us that the actual wording will not contain any surprises. If you believe this I have some land I would like to sell you.

And, while I'm bitching at the "Yes" people, I should take a shot at the "No's" as well. There are some people who honestly don't like the deal because it is undemocratic and is too full of plums for special interest groups. But for most of the nay-sayers, they are opposed because it doesn't address the particular special interest of their group.

Oh, by the way, Jonathan is a fucking idiot.

And Now, The Article You've All Been Waiting For ... JUSTIN RESPONDS TO THE VARSHITTY

Well, well, well. So the Varshitty thinks I'm a hero, eh? Well shucks guys, I didn't know y'all liked me so much. It just warms my little ol' heart to hear such nice sentiments, specially comin' from across the street. I thought y'all hated me over there at 44 St. George. I guess wonders never cease. Sorry to break it to ya' folks, but:

- 1) I ain't no hero. I was blamed because I was a reconizable face and the true culprits could not be found.
- 2) Any and all fame incurred by me has been purely the fault of the Varshitty's publicizing of the event. Thanks Guys!

There is a good point to this little affair, however. I have a new verse to my song:

*Justin Bowler is a Hero!
Doo-Dah, Doo-Dah...*

NEXT ...

So, the Varshitty gets Ms. Rothbart to write an article about how bad things were during her stay in the faculty. And what is her response? She writes an article saying that the workload is really high, and there is lots of stress, and she felt totally overworked, etc. Well, personally, I'd like to thank her for telling everyone what all of us have been saying for a long time:

ENGINEERING IS HARD!

No, shit.

That, Ms. Rothbart, is the idea. If engineering was easy, than any goof could do it and we would all still be driving explosive Pintos. The high workload helps students

to learn their most valuable real world skills. Time budgeting and com- promising. The fact that she had no time left for her leisure activities, yet ranked third in her class, showed that she learned neither of these lessons. Maybe she should have *compromised* on her marks and *budgeted* herself some leisure time!

What is even worse is that she insulted the women who have stayed in engineering. I have heard the reference to engineering women not being real women. It was said by a representative of the women's centre who took exception to the remarks of an engineering student who ran for SAC in 1987(date?). The quote was published in the Varsity, and, as expected, enraged both female and male engineering students.

In general, I'm sick of constantly hearing the Varsity putting down the engineers. Sure, we may have some problems in our faculty, but they are localized individuals. (as Ms. Rothbart said) These kind of people exist in all faculties. From conversations I've had with students in other faculties, most of the ProFacs are the same as engineering, and it is Arts and Science where the most problems seem to lie.

Perhaps you should take a break from bashing engineers, and look at yourselves!

All right everybody, lets do the Justin Bowler line-dance:

*Oh, don't you tell my heart
My hero, hero heart ...*

THIS SPACE FOR RENT

FIROSH

MR. SPOCK
BOWL CUT

486
LABTOP

\$4.99
DELUXE
POCKET
PROTECTOR

NINJA
TURTLE
LUNCH
BOX

A THESIS!
MY HP
FOR A
THESIS!!

4TH YEAR

Every
Friday

3 pm
till
7 pm

Atrium

Sanford
Fleming

SUDS

The
Engineering
Pub

Food
Drinks
Music
Fun

All
Welcome

THE MUSICAL COMEDY REVUE



WATCH FOR AUDITION POSTERS COMING SOON!

Skule[™]Nite is one of the traditions of engineering, it is tons of fun and anyone is welcome to join (regardless of faculty). You can be on stage as part of the cast or the band, or behind the scenes as part of the crew. We need help with the stage crew, the lighting and sound crews, choreography, videotaping, and ticket sales. Whatever you're interested in, please join us!